

FIG 1A

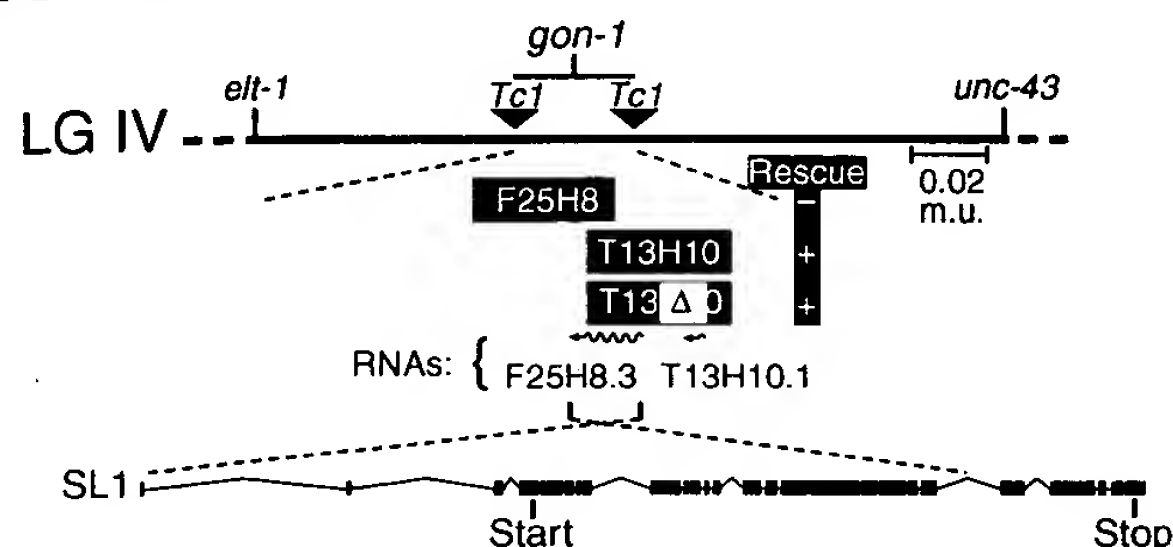


FIG 1B

Domains:

MP

TSPt1

TSPt1-like

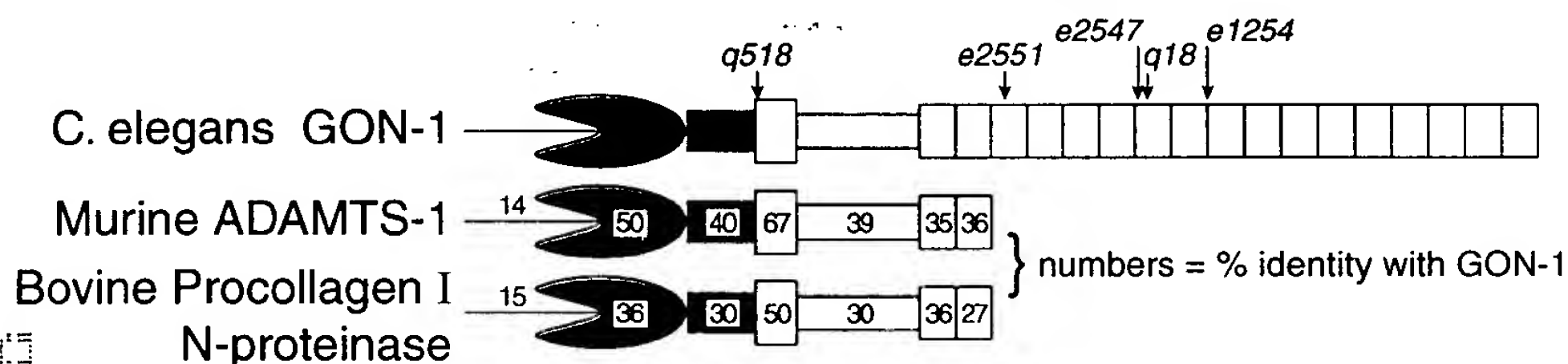


FIG 1C

signal sequence

GON-1	MRSIGGSFHLLOPVVAALILVVCLVYALQSGSGTISEFSSDVLFSRAKYSQVPVHHSRWQDAGIHVIDSHHIVRRDSYGRGKR...DVTSTDRRRRLQGVARDCGHACHIRLRSDDAVY	119
ADAMTS-1	MGDVQRAARSRLSALHMLLLASITMLLCARGA...HGRPTDEEELV...PSLERAPGH...DSTTT...RLRLDAF...GQQLHLKLQPSG.F	83
P1NP	MDPPAGAAGRL.LCPALLLLPLPADARLAAAADPPGGPQGHGAERILAVPVRTDAQRLVSHVSAATAPAGVTRRAAPAQIPGLSGGSEEDPGGRLFYNTVFGRDLHLRLP.NARL	122
GON-1	IVHLHRWNOIPDSHNKSVPHFSNSNFAPMVLYDSEEEVRGGMSTDPDC.IYRAHVKGVHQHSIVNLCDSEDGLYGMALPSGIHTVEPIISNGTEHDGASRRQHLVRKFDPMHFKSFDHL	242
ADAMTS-1	LAPGFTLQTVGRSPGSEAQHLDPDGLAHCFYSGTVNGDPGSAA.ALSLCEGVRAFYLQGEFFIQPAPGVATERLAPAVPEEESARPOFHILRRRRRSGGAKCG.VMDDTLPTSDSRPE	205
P1NP	VAPGATVEWQGESGATRVEPL...LGTCLYVGDVAGLAESSVALSNCDGLAGLIRMEEEFFIEPL...EKGLAAKEAQGRVHVYHRPTTSRPPPLGGPOAL...DTGISADSLDS	232
GON-1	NSTSVNETETTATWQDQWEDVIERKARSRAANSWDHYVEVLVADTKMYEYHGRS.LEDYVLTFTSTVASIRHOSLRASINVVVKLIVLKTENAGPRI.TONAOQTLQDFCRWQYYNDP	364
ADAMTS-1	SONTRNQWPVRDPTQDAGKPSGPGSIRKRFVSS.PRYVETMLVADQSMADFHGSG.LKHVLTFTSVAARFYKHPISIRNSTSLVVVKILVIYEEQKGEV.TSNAALTIRNFCSWQKOHNSP	326
P1NP	LSRALGVLE...ERVNSSRRRMRHAADDYNIENVLLGVDSVVOFHGTEHVQKYLTLNINIVNEIYHDES LGAHTNVVLRITILLSYGKMSMLIEIGNPSQSLENVORWAYLQOKP	346
GON-1	DDSSVQHHDVAILLTRKDICRSQKCDTLGLAELGTMCDMOKSCATIEDNGLSAAFTIAHE.LGHVFSIPHDDERKSTYMPVKNKNNFHIMAPTLEYNTHPWSWSPCSAGMLERFLENNRGQTOC	488
ADAMTS-1	SDRDPEHYDTAILFTRODLGSH.TCDTLGYADVGTVCPSRSCSVIEDDGLQAFTTAHE.LGHVFNMPHDDAKHCASLNGVSGDS.HLMASMLSSLDHSPWSPCSAYMVSFIDNGHG..EC	446
P1NP	DTDHDEYHDHAIFLTRODF...GPSGMOGYAPVTGMCHPVRSCTENHEDGSSAFVVAHETGHVLMGEHDGQ...GNRCGDEVRLGSIAPLVQAAFRHFHWSRCSQOELSRYLHS...YDC	459
GON-1	LFDQPVERRYEDVFRDEPGKDYAHOOCKFVFGPASELCP.YMP...TCRRLLWATFYGSOMGCRTQHMPWADGTPCDESRSMFCHHGACVRLA..PESLTKIDGOWGDWRSGECSRTCGLG	607
ADAMTS-1	LMDKPN...PIKLPSDLPGTLYDANROCOFTFGEESKCPDAAS...TCTTLWGTGTSGGLLVCOIKHFPWADGTSCEGK...WCVSGKCVNKTDMKHFAFPVHGSWGPWGPWGDSCRTCGLG	562
P1NP	LRDDPFTHDWPA...LPQLPGLHYSMNEQGRFDFGLGYMMTAFRTFDPCQQLWGSHPDNYPF.CKTKGPPDGTMCAPGKH...CFKGHCILWLP...DILKRDGNWGAWSPPGSCSRTCGLG	574
GON-1	VOKGLRDCISPKPRNGGKYCVGRERYRSCNTQECPDWT.OPYREVQSEFNKDIGIQGVASTNTHWPKYANVAPNERCLYCRLSGSAAFYLLRDKVVDGTPCD.RNGDDICVAGACMPAG	729
ADAMTS-1	VOYTMRECDNPVPKNGGKYCEGKRVYRSCNIEDCPDNGKTFREEQGEAHNEFSKASFGNEPT.VENTPKYAGVSPKDRCLTCEAKGIGYFFVLQPKVVDGTPCS.PDSTSYCVQGGCVKAG	684
P1NP	VKFRTRCENPHHPANGGRTCSGLAYDFQLNSQDCP.DALADFREEQGRQWDL...FEHGDAQHMLP.HEHRDAKERCLYCESKETGEVVSMMKRMV.DGTRCSYKDAFSLCVRGDCRKVG	692
GON-1	CDHQLHSTLRRDKCGVCGGDDSSCKVVKGTFN.EQGTFGYNEVMKIPAGSANIDIRQKGYNNMKEDDNYLSLRAANGEFLNGHFQVSLARQOIAFQDTVLEYSGSDAIIERINGTGPIRSDIY	852
ADAMTS-1	CDRIIDSKKFKDKCGVCGGNGSTCKKMSGIVT.STRP.GYHDIPTIPAGATNIEVKHRNQRGRNNGSFLAIRAADGTIY.LNGNFTLSTLEQDLTYKGTVLRYSGSSAALERIRSFSPLEPLT	806
P1NP	CDGVIGSSKOEDKCGVCGGDNSSCKVVKGTFSRSPKKLGVIKMFIPAGARHLIIQEAD...TSSHHLAVKNLETGKFI.NEENDVDPNSKTFIAMGVEWEYRDEDGR.ETLQTMGLHGTIT	811
GON-1	VHVLVSG.SHPDISYEYMTAAVNAVIRPISS...AL.YLVRVTDITTECDRAC.RGQOSQKLMCLDMSTHRQSHDRNCONVLKPKQATRM.CNI.DCS.TRWITEDVSSCSAKCGS.GQKRO	966
ADAMTS-1	IQVLMVGHALRPKIKFTYFMKKKTESF...NAI...PTFSEH.VIEENGESKTCGSGWRRVVOGRDINGHPAS...ECAKEVKPA.STRP.CADLPC..PHWQVGDWSPCSKTCGK.GYKRR	915
P1NP	VLVIPEGDA.RISLTYKMIHEDSLNVDDNNVLEDDSVGYEN.ALKKHSPCKPCGGGSOFTKYGRRRLDHKMVHRGFCDSVSKPK.AIRRTCNPOECSOPVWVTGEWEPSCSRSCGRTRGMQVR	932
GON-1	RVSCVMEGDRQT.PASEHLCDRNSKPSD.IASCYI.DC	plus 1148 aa
ADAMTS-1	TLKCVSHDGG...VLSNESCDPLKKPKHYIDFCTLTQC	plus 1 aa
P1NP	SVRCVOPLHNNTTSVHTKHON.DARPEGR.RACNREL	plus 236 aa

A. Wild-type gonadogenesis

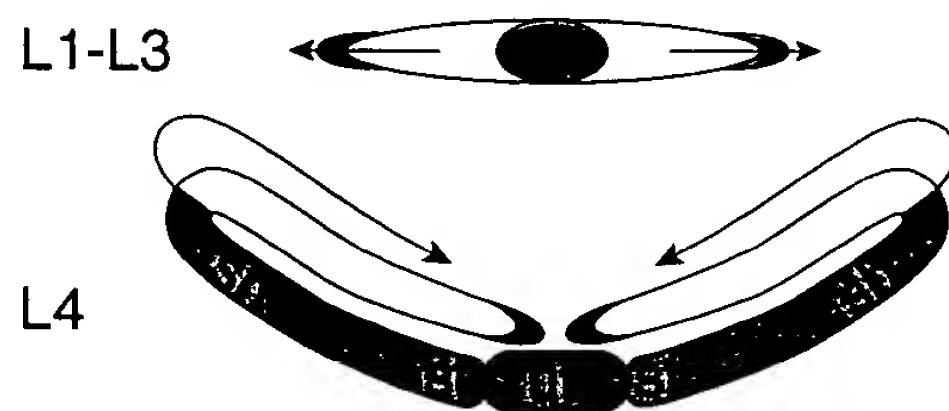


FIG 2A

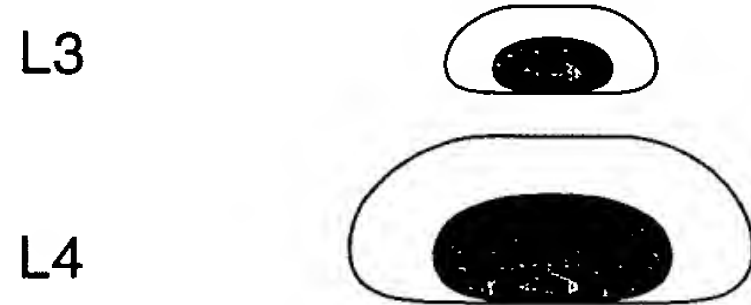
B. *gon-1* required for gonad morphogenesis

FIG 2B

Key: ■ somatic gonad □ germ line ➤ DTC